

Patrick Gray  
Principal Security Strategist  
Cisco



**HACKERS, CRACKERS, BOTS,  
MALWARE AND PHISHERS, OH MY!**



It's a great to be in Sacramento today, but uh, do you know where your data is right now?



# It's all about data, your data

- The confidentiality
- The integrity
- The availability



It's hard to protect that which we have no  
idea as to its whereabouts

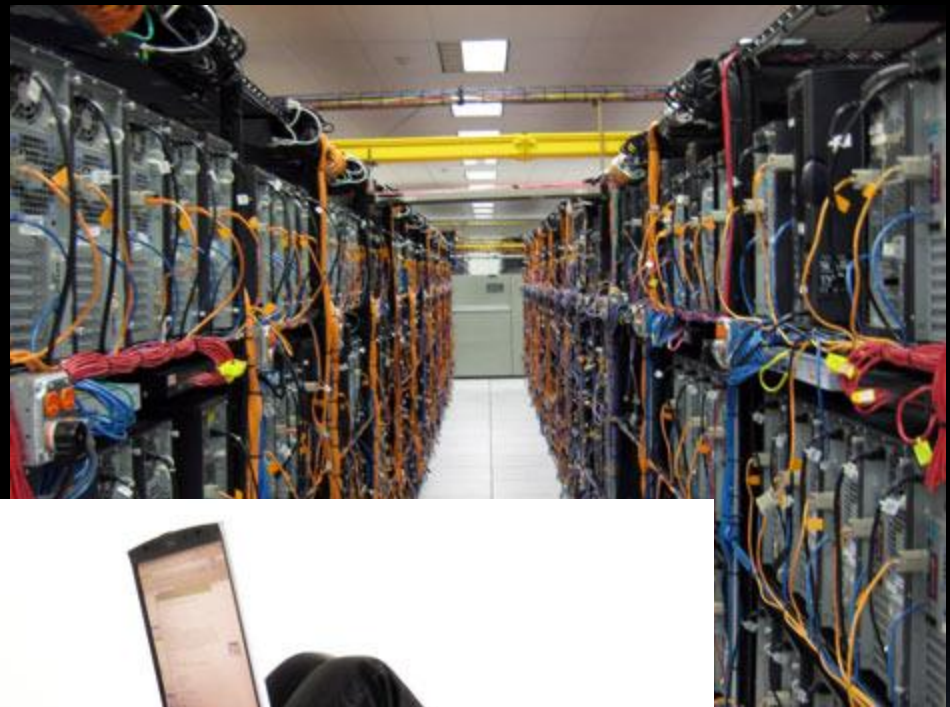




So, where is our data today?



On any device...



# Any place...





Any time...



# Mobile Apps





# Your apps



# CA Resident's Data



# CA Employee Data

EMPLOYEE DATA SHEET FOR MR. MICHAEL SPENCER					
Full name		Nick Name		Others	
MR.		MICHAEL SPENCER			
ID NO.:	CURRENT POSITION:		<input checked="" type="checkbox"/> Add to mailing list		
332321	HR MANAGER				
CATEGORY:	EMPLOYMENT TYPE:		DATA TYPE		
ADMIN AND FINANCE	FULL TIME		<input checked="" type="radio"/> Employee		
DEPARTMENT:	ARCHIVE NO:		<input type="radio"/> Prospect		
ADMINISTRATION	SOCIAL SEC. NO.:		<input type="radio"/> Resume		
	0				
INCOME TAX NO.:					
0					
Personal   Bank Info   Documents					
NATIONALITY:		GENDER:		BIRTH DATE: <input checked="" type="checkbox"/> Remind me	
UNITED KINGDOM		MALE		29/06/1971 before 30 days	
SPONSOR:		MARITAL STATUS:		RELIGION:	
LIVERPOOL HIGH SCHOOL		MARRIED		CHRISTIAN	
EMERGENCY CONTACT PERSON:		EMERGENCY TELEPHONE NUMBER:		PERSONAL EMAIL ADDRESS:	
MS. KATHI HALL		4433221100		m.spencer@yahoo.com	
PERMANENT ADDRESS:		CONTACT ADDRESS:			
LIVERPOOL STREET					
ST. NO. 10					
UK					
CITY:	AREA:	COUNTRY:		CITY:	
LIVERPOOL		UNITED KINGDOM		AREA:	
TELEPHONE 1:	TELEPHONE 2:	FAX NUMBER:		COUNTRY:	
4433221100					
HOME TEL NO.:	MOBILE NO.:	FAX/PAGER NO.:			
443322110	432321009				
Select Profile to View: Personal <input type="button" value="VIEW"/>					
<input type="button" value="DELETE"/> <input type="button" value="PRINT"/> <input type="button" value="EXIT"/>					

# State Agency Data

The screenshot shows a web browser window displaying the State of California .Gov website. The browser's address bar shows the URL <http://www.ca.gov>. The website's header includes the .Gov logo and the text "State of California". A navigation menu at the top lists various categories: Home, Business, Education, Employment, Health, Home & Family, Tourism & Recreation, and About CA. A search bar is located in the top right corner, labeled "Search California".

The main content area is titled "State Agencies Directory - A Agencies". It includes a brief description: "Includes State agencies, departments, boards, and commissions. Also includes links to frequently requested projects, programs, and other non-profit organizations which are related to government." Below this, there is a section for "Email/Contact" with a list of links to various state agencies, each preceded by a right-pointing arrow and followed by an envelope icon. The links are: Access for Infants and Mothers, Accountancy, Board of, Acupuncture Board, Administrative Hearings, Office of, Administrative Law, Office of, Adoptions Branch, Department of Social Services, African American Museum, California, Aging, California Commission on, Aging, Department of, Agricultural Labor Relations Board, and Agriculture, Department of Food and.

On the left side of the page, there is a sidebar with the heading "I Need To..." and a list of links: Contact the Governor, Find a state agency/email, Get quick facts, Search law, Search public records, View calendars, and Visit the State Capitol. Below this is a section titled "Related Agencies" with a list of links: Air Resources Board, California Arts Council, California Coastal Conservancy, and More About CA-related Agencies.

The browser's status bar at the bottom shows "Done" and "Internet".

# Today, it's about mobility...

- In the past few years we shifted our lives to the PC and the Internet
- Now, it's all about being mobile
- A PC in your pocket
- California's mobile work force is growing and expanding globally





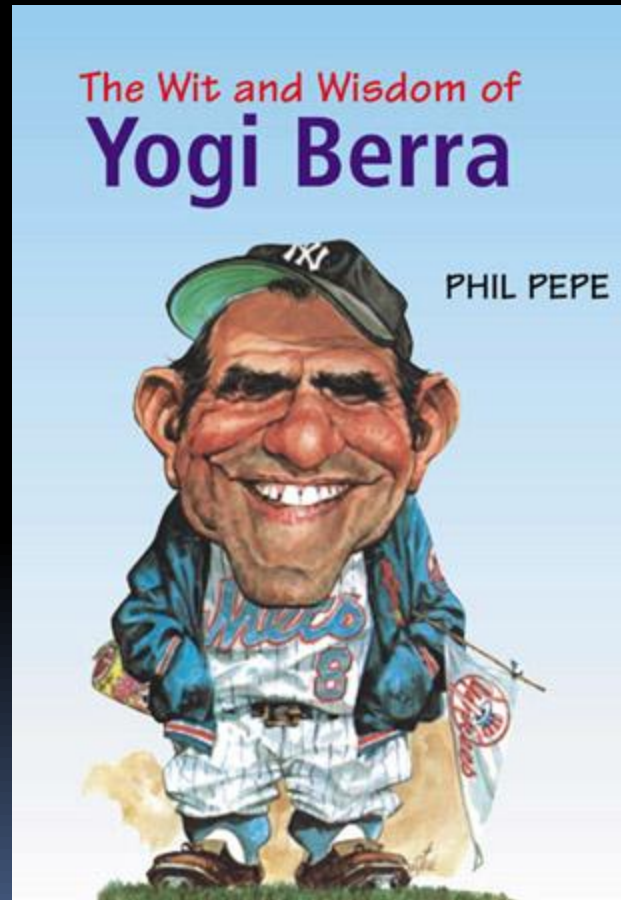
# Sleeper Agent



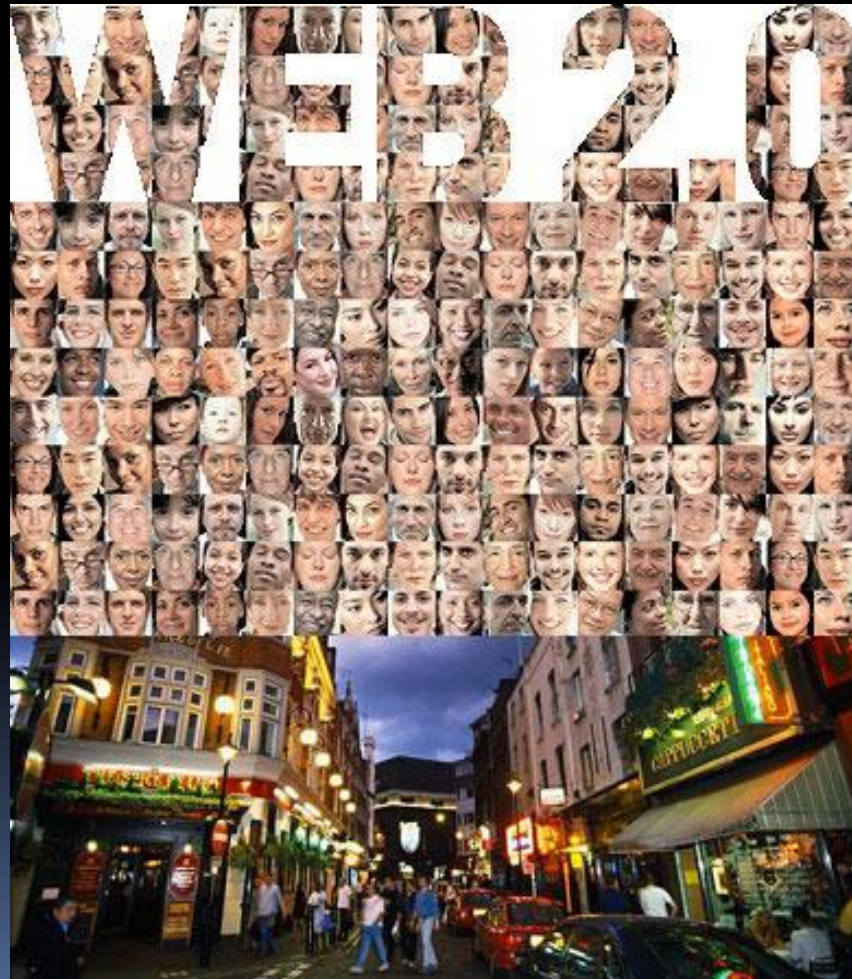
# Remember when...

- Security meant having someone who could set a rule on a firewall
- The security officer was at the desk in the lobby
- Browsing was something you did at a Mall
- Podcasting was throwing peas into the wind
- Intrusion prevention was locking your front door
- Identity theft was handing in someone else's homework
- Data loss was forgetting where you put your car keys
- Those days are gone...

“The future ain’t what  
it used to be.”



What are we going what are we doing?





# Cisco Wikis

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[Cisco Learning Home](#) > [Connections](#) > [Team Wiki Spaces](#)

### Connections

- News and Events
- Games Arcade
- Cisco User Groups Intl
- Team Wiki Spaces
- Green IT
- Network IT
- Recursos Educativos (Español)

## Team Wiki Spaces

Set as default tab

[Overview](#) [All Content \(7\)](#) [Discussions \(4\)](#) [Documents \(3\)](#)

### TEAM WIKI SPACES




**Collaboration is key.**

If your technology group needs a place to share ideas and coordinate concepts, a Team Wiki Space on the Cisco Learning Network might be just what you need. You can email us to request information on your own Team Wiki Space. We are currently evaluating teams for inclusion in this cutting-edge environment.

#### Current Private Team Wiki Spaces

There are no sub-communities.



**Keep on Keepin' on!**

Modern work is collaborative, where many people have bits and pieces of the information

### Top Contributors

- Matthew Tighe
- jhilton
- Michael Wilson
- kolawole1
- Silvio Veira


[View all participants](#)

### Recent Discussions

- Re: Mobile Voice Access**  
How to set up using hairpinning  
by Cesar Fiestas 9 months ago
- Siebel Intergration with IPCC Enterprise**  
by Clive Randell 10 months ago
- Re: Callmanager 5.1.3 Cluster**  
by Kallen Harper 10 months ago
- Re: One way Voice - Panasonic IP Card integration with CCM4.1**  
by Jimk 10 months ago



# Cisco Blogs



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- Data Center Networks
- DigitAll Consumer
- DigMediaRev
- Ecollabrium
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- Security
- SP360: Service Provider
- Virtual Worlds
- Web Experience

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- > [John Chambers @ CiscoLive: "The Future is about speed, scale and flexibility."](#)
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- > [Wow! 13,000+ to Attend This Week's Cisco Live Show](#)

**June 30, 2009**

**John Chambers @ CiscoLive: "The Future is about speed, scale and flexibility."**

I've just finished watching the [CiscoLive](#) keynote webcast of Cisco Chairman and CEO John Chambers from San Francisco. All this talk of video, collaboration and virtualization makes much sense to me as I'm a whopping 45 miles away in San Jose and still getting much the same experience. The following are notes I jotted down while watching the webcast.

SVP Carlos Dominguez (@carlosdominguez on twitter) was funny in his intro and welcome... said this was his 17th year at Cisco and the great executive perks that he gets are limited to having a better executive photo and has now ended up with one that [looked a bit like this](#). He said frugality and Cisco culture is really a legacy of Former CEO and Chairman Emeritus John Morgridge.

Morgridge (who is AWESOME, by the way) walked through the early history of Cisco...founded at Stanford University...operated out of a living room in Atherton, CA...listening to customers...giving back...and hiring John Chambers in 1991. He said, after good engineers, a start-up needs t-shirts, pizza and beer.






Chambers followed and asked a lot of questions that he is hearing in the marketplace and from customers. He asked "Are 30 market adjacencies too many for us to be going in to?" He asked one partner attendee the same question...response: "not if you have the right partnering strategies." He thanked the over 10,000 CiscoLive attendees and 3,000 virtual attendees for their hard work and passion and said, "We have to earn your trust, confidence and commitment every day."

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# Cisco on Twitter





Home Profile Find People Settings Help Sign out



## CiscoSystems







Congrats to Alabama's Ingram on winning closest [#Heisman](#) ever over [@Stanford](#)'s Gerhart. Cisco loves [@Stanford](#) and Gerhart.

about 24 hours ago from web

RT [@CIOworldnews](#): BT and Cisco launch cloud-based IPT solution <http://bit.ly/8apokp>

**Name** Cisco Systems  
**Location** Silicon Valley  
**Web** <http://blogs.cisc...>  
**Bio** News and info about Cisco, our CEO and execs. I am [@John\\_Earnhardt](#) and am your tourguide on our official Twitter feed. Cisco Support [@http://www.cisco.com/tac](#)

**2,527** **19,598** **616**  
following followers listed

**Tweets** **1,723**

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# CA on Twitter



Home Profile Find People Settings Help Sign out



## CAgovernment





RT @CA\_DMV: Remember if you transfer ownership of your vehicle, file release of libility to DMV w/in 5 days <http://tinyurl.com/ldbg45>

10:12 AM Dec 10th from HootSuite

RT @CA\_FTBAO\_JB: #ftb FREE webinar on backup withholding Dec 15:

**Name** CA.gov (California)  
**Location** Sacramento, CA  
**Web** <http://www.ca.gov>  
**Bio** The State of California's official Twitter account. Follow our updates.

**1,125** **3,641** **164**  
following followers listed

**Tweets** **957**

Favorites

Lists

- [@CAgovernment/museums-zoos](#)
- [@CAgovernment/libraries](#)
- [@CAgovernment/fire-police](#)
- [@CAgovernment/university-college](#)
- [@CAgovernment/federal](#)
- [@CAgovernment/city-county](#)

# Explaining Services





www.dmv.ca.gov



CA\_DMV



**Save Time,  
Go Online!**

Remember if you transfer ownership of your vehicle you must file a release of liability to DMV w/in 5 days  
<http://tinyurl.com/ldbg45>  
1:17 PM Dec 9th from web

---

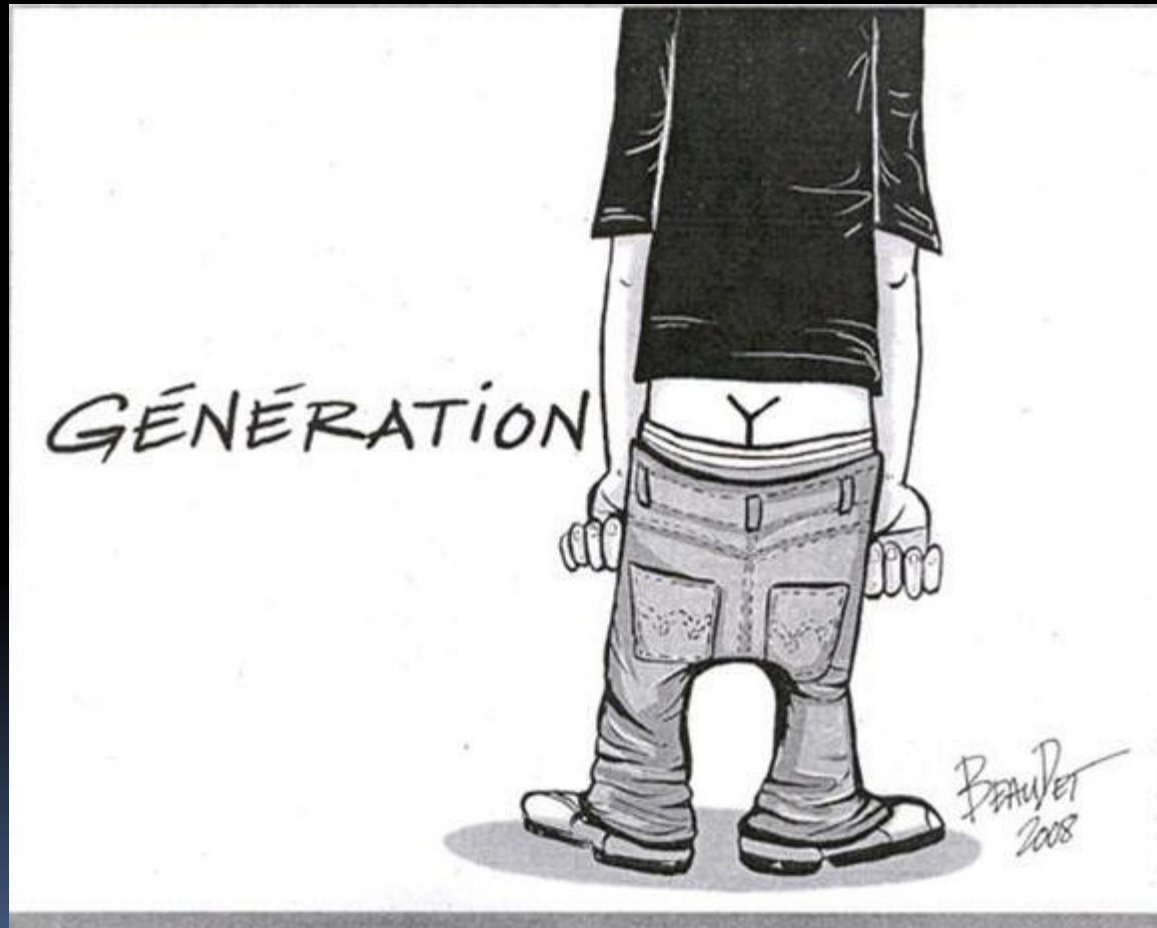
Reminder! DMV will be closed tomorrow, December 4th. Be sure to check out online services! [www.dmv.ca.gov](http://www.dmv.ca.gov)

Guess who this is...





Yup, Generation Y is on the network – Like it or not, they're here to stay



So, where are we going and what are we doing once we get there?

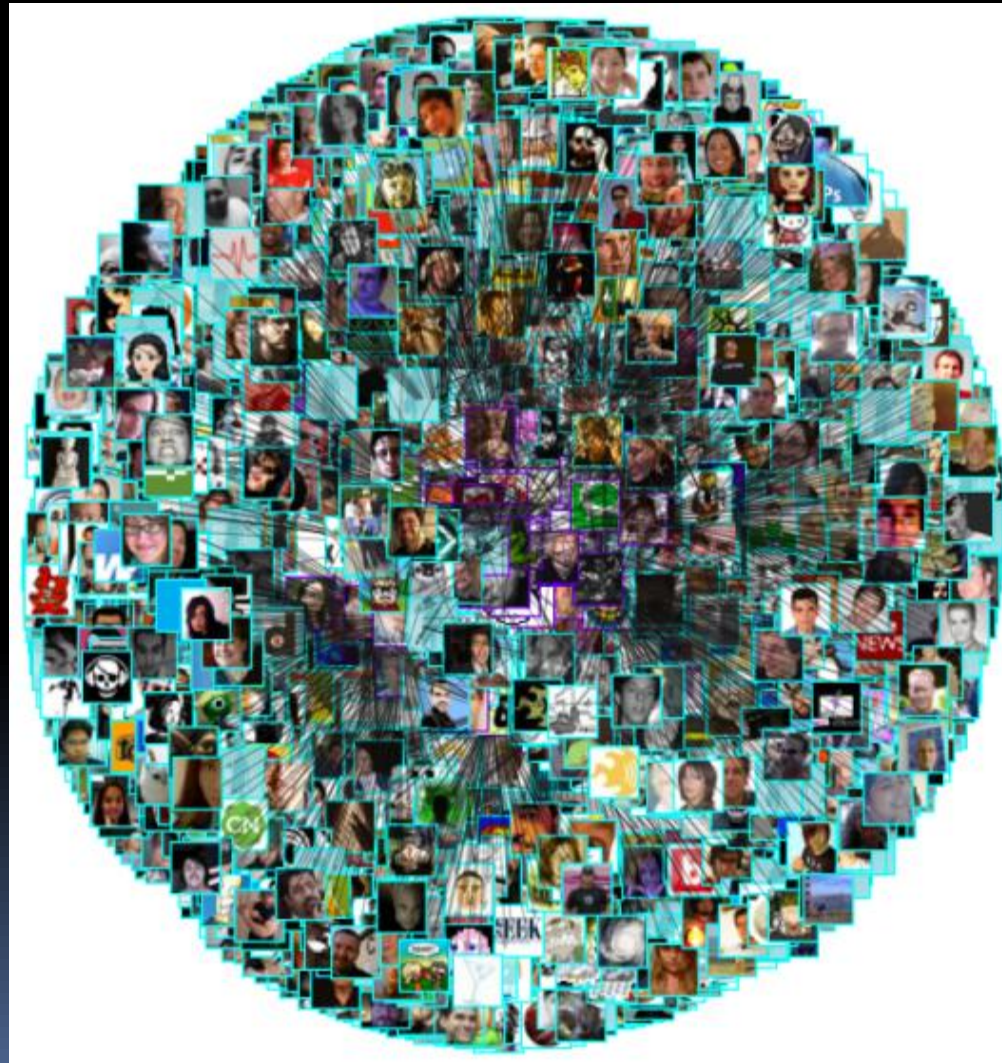


***There is a human element to all of this, an element that is more often than not, overlooked...***



# It's no longer just close relationships

- State employees, are going places they've never gone before and are touching technology daily
- That which they are touching is touching Agency networks as well





# With Web 2.0

- A new breed of malware is evolving
- Google Mashups, RSS feeds, search, all of these can be misused by hackers to distribute malware, attack Web surfers and communicate with botnets





# What are the Risks with Web 2.0?

- Social networking is the norm today
- It marks the global trend of seeking friendships or relationships online
- Gradually getting into business life, where networks are used for boosting interactions with customers, banks, brokers and others
- Enhancing communication with colleagues, as well as being a platform for promotion of services and promotions

# Risk – it's everywhere

- And no one knows that better than IT security professionals
- Disgruntled employees, fired employees, clueless employees who succumb to social engineering, passwords left on Post-it notes, wide-open instant messaging and increasingly powerful hacker tools in the hands of teenagers, Web Mobs and Organized Crime targeting Social Media sites



# Objective?

- The key objective, of course, is to recognize risk, safeguard your reputation and not reveal sensitive or confidential information that may prove harmful to the business



# So, what do we have to do?

- Create a Human Firewall



# The Human Firewall – an invaluable tool

- A good *human firewall employee* is one who filters good security practices and rejects any others—much like a network firewall only allows authorized traffic and rejects any other
- The only way to build a good human firewall is to raise people's awareness; to teach them good habits, to make them recognize bad practices and change them into good practices
- Your cyber security is only as good as the people who manage and those who use it



So Patrick, why do we really need that Human Firewall?



# Because, 'Friend' has become a verb

- Social media users believe there is protection in being part of a community of people they know
- Criminals are happy to prove this notion wrong



# My new friends...



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Home > News > Webware

**Webware**  
COOL WEB APPS FOR EVERYONE

December 7, 2009 7:34 AM PST

## Study: Facebook users willingly give out data

by Don Reisinger [Font size](#) [Print](#) [E-mail](#) [Share](#) [27 comments](#)

263 [retweet](#) [Share](#) [179](#)

Facebook users are too willing to give out their personal information, security firm Sophos has found.

According to Sophos' Australian team, which **conducted a study** to see how likely Facebook users were to offer up personal information, 41 to 46 percent of the 100 people Sophos contacted "blindly accepted" friend requests from two fake Facebook users created by the security firm.

After becoming friends with Sophos, the security firm was able to access up to 89 percent of the users' full dates of birth, all of their e-mail addresses, where they went to school, and more. Half of all the users Sophos befriended displayed the town or suburb where they live. They even offered up information on family and friends.

Younger users were "more liberal" with their workplace or school information than older users. "Both groups were very liberal with their e-mail addresses and with their birthdays," the security firm wrote in a blog post Sunday announcing the results. "This is worrying because these details make an excellent starting point for scammers and social engineers."

The security firm added that "10 years ago, getting access to this sort of detail would probably have taken a con-artist or an identify thief several weeks, and have required the on-the-spot services of a private investigator. Sadly, these days, many social networkers are handing over their life story on a plate."

**facebook**

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ORIGINAL HP INKS *give you*  
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**About Webware**

Say No to boxed software! The future of applications is online delivery and access. Software is passé. Webware is the new way to get things done.

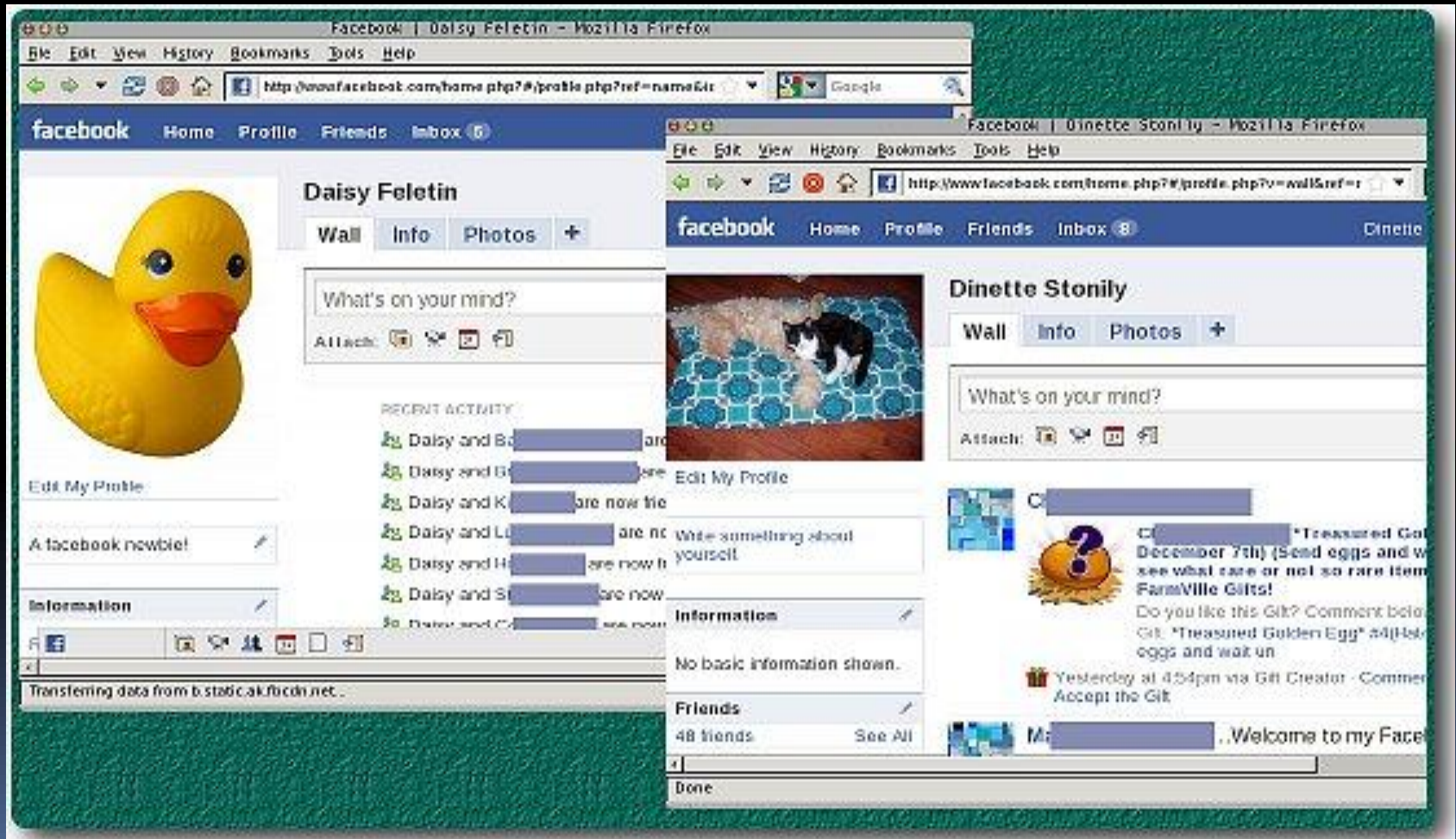
[Subscribe via RSS](#)  
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Done Internet

# 46% accepted and gave full access



# The “herd” mentality

- The threats and security issues that come with social media aren't usually caused by vulnerabilities in software
- More commonly, these threats originate from individuals who place an unwarranted amount of “transitive trust” in the safety of these communities



# Trust?

- Users will trust something or someone because a user they know has also expressed trust in that person or subject
- We trust because we are curious and curiosity...



# Curious? This is why! Out of date???


YuoTube - Broadcast Yourself. - Secret video Tom - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.sdpk.com/1.html?schk=@keak=

## Secret video by Tom


Rate:  
24 ratings  
[Sign in](#) to rate  
Views: 2,609



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0 ■ ■  
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[cmith1199](#) (6 hours ago)  
0 ■ ■



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Joined: 1 year ago  
Videos: 5  
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```
<object width="425" height="344"><param name="movie"
```

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Opening flash\_update.exe

You have chosen to open

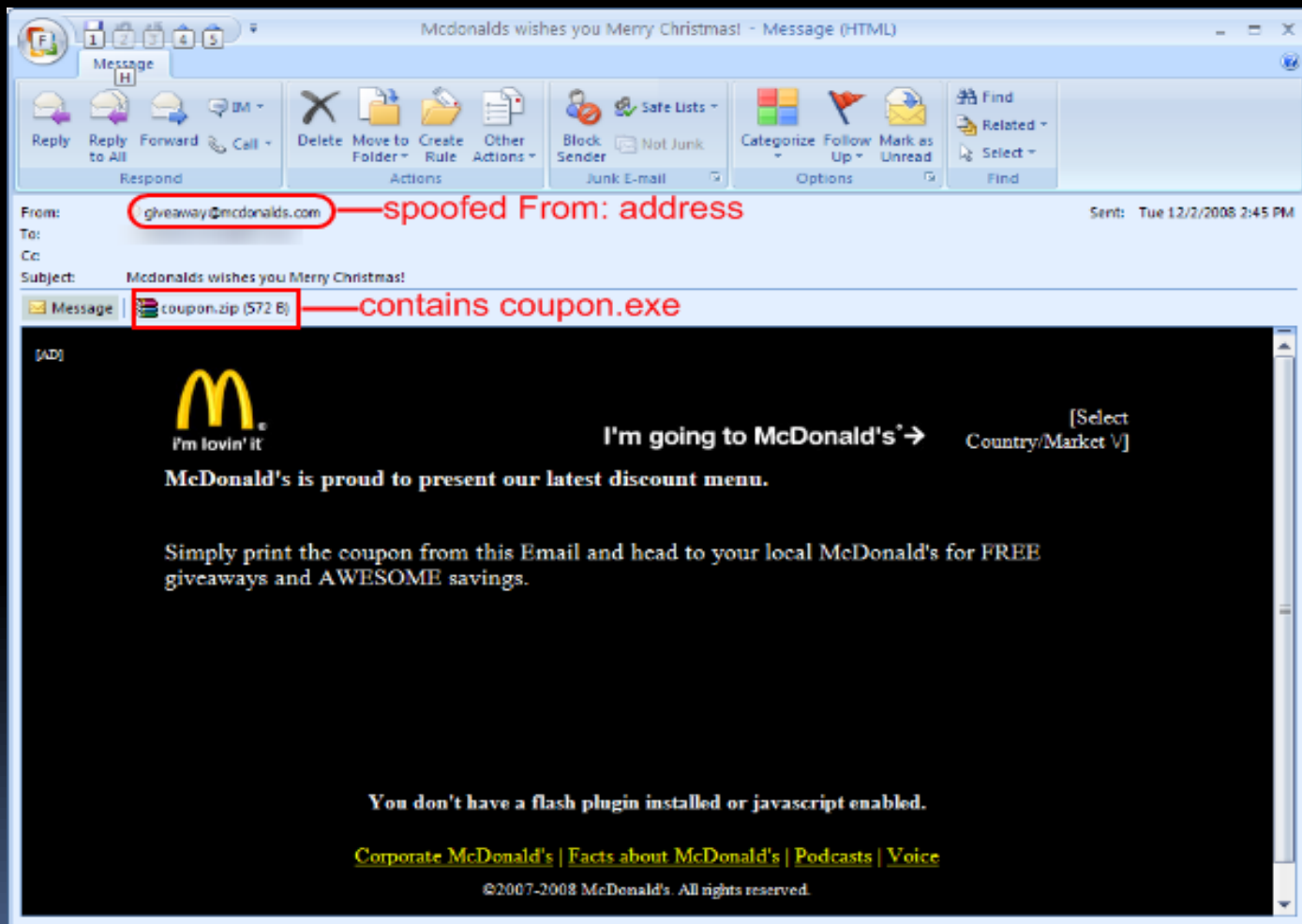
 **flash\_update.exe**  
which is a: Application  
from: <http://www.sdpk.com>

Would you like to save this file?

[Save File](#) [Cancel](#)

Done

# Or a Big Mac!



# Or bogus health information

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DJIA: 10468.78 -2.80 -0.03% | Nasdaq: 2189.92 +14.11 +0.65%

## Online gangs cash in on swine flu

Mon Nov 16, 2009 12:39pm EST

[Email](#) | [Print](#) | [Share](#) | [Reprints](#) | [Single Page](#) [-] Text [+]

By [Kate Kelland](#)

LONDON (Reuters) - Criminal gangs are making millions of dollars out of the H1N1 flu pandemic by selling fake flu drugs over the internet, a web security firm said on Monday.

Sophos, a British security software firm said it had intercepted hundreds of millions of fake pharmaceutical spam adverts and websites this year, many of them trying to sell counterfeit antiviral drugs like Tamiflu to worried customers.

Tamiflu, an antiviral marketed by Switzerland's Roche Holding and known generically as oseltamivir, is the frontline drug recommended by the World Health Organization to treat and slow the progression of flu symptoms. GlaxoSmithKline makes another antiviral for flu, known as Relenza.

Sophos said many of the gangs behind the sites were based in Russia and the top five countries buying fake Tamiflu and

1 of 1 [Full Size](#)

MORE NEWS

- Flu infections starting to peak in some areas: WHO  
Friday, 13 Nov 2009 01:22pm EST
- Antivirals key to preventing severe H1N1 disease: WHO  
Thursday, 12 Nov 2009 11:17am EST
- UPDATE 2-Antivirals can prevent pandemic flu deaths - WHO  
Thursday, 12 Nov 2009 10:21am EST
- WHO says pandemic flu on rise in China, Japan

EDITOR'S CHOICE

A selection of our best photos from the past 24 hours. [Slideshow](#)

SEARCH RESULTS

Results for "Online Gangs Cash In on Swine Flu"

- Online gangs cash in on swine flu Monday, 16 Nov 2009 07:39am EST
- Aid freeze in post-coup Honduras hurting poor Thursday, 12 Nov 2009 09:58am EST
- More results for "Online Gangs Cash In on Swine Flu"

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## Security



March 6, 2009 2:55 PM PST

### Expert: Twitter accounts hijacked in new attack

by [Elinor Mills](#)   [Font size](#)   [Print](#)   [E-mail](#)   [Share](#)   [4 comments](#)

Twitter users looking for a little entertainment on a boring Friday may want to go elsewhere to get their fix.

A new attack was hijacking Twitter users Friday, with at least 700 accounts being compromised in two hours beginning at about 11 a.m. PST (7 p.m. GMT), security researcher Rik Ferguson [wrote on the Trend Micro blog](#).

Victims are clicking on a link in a tweet that lures them with the promise of chatting with a 23-year-old woman on a Webcam.



hey! 23/Female. Come chat with me on my webcam thingy here [www.c...e.com](#)  
about 1 hour ago from web

This is the malicious tweet that links people to a dubious Web site, Trend Micro says.  
(Credit: Trend Micro)

▼ [Ad Feedback](#)



Online Exclusive!  
**Sweet Phone.**  
**Delicious Price.**  
**LG Chocolate® 3**  
Now at our lowest price ever  
just **\$69.99**  
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- [Craigslist to sheriff: Federal law protects site](#)
- [Microsoft: Lots to turn off in Windows 7](#)



# How and why?

- 700 accounts were compromised in two hours
- Victims were clicking on a link in a tweet that lured them with the promise of chatting with a 23-year-old woman on a Webcam
- Uh uh! That's a no no!



# They want to send us somewhere else...

**The Register**<sup>®</sup>  
*Biting the hand that feeds IT*


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ESET says, "time's up." Get more info here.



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## Twitter hit with rogue anti-virus scam

### For-profit attack

By [Dan Goodin in San Francisco](#) • [Get more from this author](#)

Posted in [Security](#), 2nd June 2009 00:03 GMT


[Hitachi IT Operations Analyzer - 30-day free trial](#)

Twitter users over the weekend were the target of a scam that tried to infect them with rogue anti-virus software and other malware, in what is one of the first times the micro-blogging site has been hit by a known for-profit attack, a security researcher said.

The problem started after a flurry of tweets directed users to a website promising "Best Video." The site appeared to offer content from YouTube, but behind the scenes, the site delivered a PDF document designed to infect those using vulnerable versions of Adobe's Reader program. Victims then received an urgent warning that their systems were infected and needed to be cleaned using fraudulent security software.

**TOP STORIES** MOST READ MOST COMMENTED

- **Hackers demand \$10m ransom for Virginia medical data**
- **eBay driving world's tomb raiders out of business, says prof**
- **Botnet hijacking reveals 70GB of stolen data**
- **Sri Lankan Army site 'assassinated' by rebels**
- **US Congress wants hack teams for self-penetration**



Don't go there!

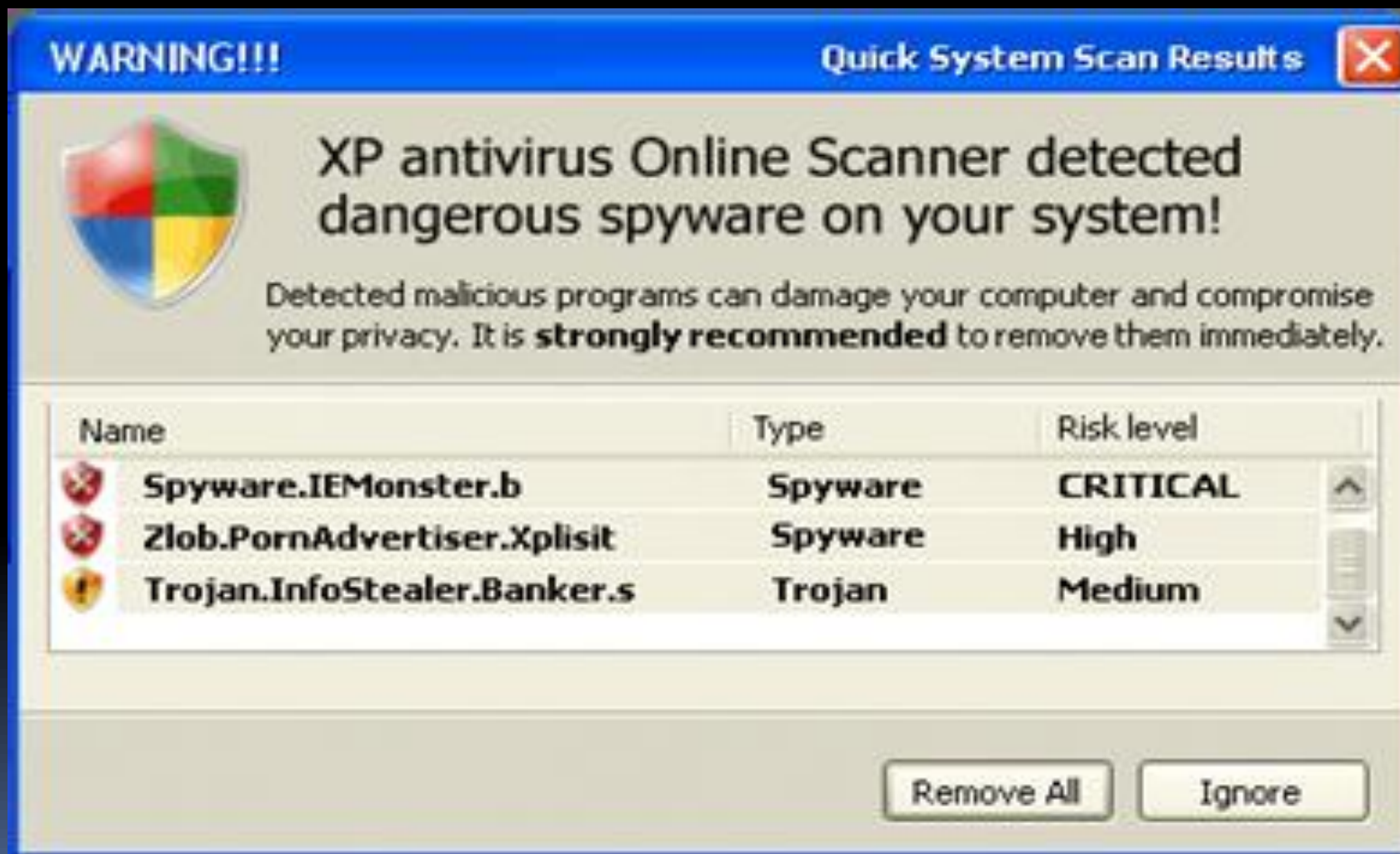


Stay on the path that you know well!





# The unknown... DO NOT TOUCH THIS!!!





# They play on our fears

Pop-up blocked. To see this pop-up or additional options click here...

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## Data Protection

Google Custom Search

Thursday, October 29, 2009

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### AWARENESS

## 4 Swine Flu Scams Making the Rounds

**From bogus influenza medication to useless prevention products, here are the latest criminal schemes using H1N1 headlines to grab attention**

» [Comments](#)

By **Joan Goodchild, Senior Editor**

October 28, 2009 — [CSO](#) —

The words "swine flu" had barely been uttered last spring when spammers and malware authors, hoping to take advantage of fears and curiosity about the virus, began devising ways to trick people with clever subject lines and fake web sites. In April, only days after officials began to talk about the virus, officially known as H1N1, researchers with several security firms reported spam relating to the virus already accounted for 4 percent of all unwanted emails.

More than six months later, H1N1 has indeed spread to large numbers of people around the world. So have related scams and schemes cooked up by the bad guys, either looking to infect your computer, steal your credit card information or sell you phony products. Here, we detail some of the most common lines being used online lately.

**For expert advice on business continuity in the face of the pandemic, check out CSO's Swine Flu (H1N1) Business Continuity Planning Guide**

**Treat swine flu virus! Buy Tamiflu without a prescription**

Researchers at McAfee Labs have found that a great deal of the spam ending up in inboxes lately has a subject line that offers Tamiflu, a prescription-only medication that can stop influenza from further mutating in the early stages of the virus, without a prescription. According to McAfee Labs lead researcher Adam Wosotowsky, the link offering Tamiflu usually directs users back to an alleged Canadian pharmaceutical site that likely sells fake products. In fact, spam that advertises websites for "Canadian pharmaceuticals" accounted for more than 70 percent of global spam volume in September, according to McAfee analysis.

In the past few weeks, fraudulent offers of so-called swine flu treatments and medications have become so

### ESSENTIAL READING

- [Wireless Security Basics](#)
- [Network Security Basics](#)
- [Computer Incident Detection, Response, and Forensics](#)
- [A Few Good Information Security Metrics](#)
- [Breach Disclosure Laws by State \(Map\)](#)

Smarter technology for a Smarter Planet.



### WEBCASTS

[Mining for Gold: Cybercrime Prevention and the Role of Log Management](#)

Done, but with errors on page.

Internet

# Free solution? DO NOT CLICK ON THIS!!!

## AVG Anti-Virus 8.5

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Fully Automated to keep  
Your Computer  
**PROTECTED**  
at all Times from all kind of  
Threats...

[Download Now](#)



### AVG Antivirus 8.5 Features

- Improved Virus Detection
- Protection from unwanted programs
- Updated automatically
- Customer Support 24/7
- Full Protection against email viruses
- Automatic Healing and Removing infected files
- Intelligent System Scanning



### AVG Antivirus

[Download Now!](#)

Average Rating	: ★★★★★
Downloads	: 2,542,502
Publisher	: Grisoft
File Size	: 18.8 MB

[Download Time](#)

56K

# How about a new picture?

- One emerging attack on social networks, for example, sends messages to a victim's friends that he has updated his profile photo
- When the friends click on a link to the photo, they are then infected, as well, and the cycle continues



# Or just plain take advantage of our desire for titillation

## Hackers exploit Tiger Woods car accident to spread malware

Cybercriminals have wasted no time taking advantage of the news that the world's number one golfer, Tiger Woods, has been [involved in a car accident](#) outside his house in Florida.

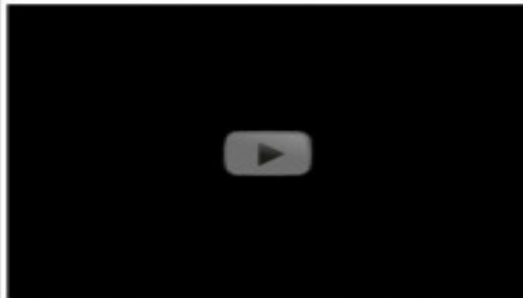
Hackers have created webpages claiming to contain video content related to the accident where Tiger Woods reportedly crashed his car into a fire hydrant and tree as he left his home at 02:25 local time.

### Tiger Woods Rachel Uchitel ( Tiger Woods Car Accident )

November 27th, 2009 by admin

#### Tiger Woods Rachel Uchitel

She has already pulled off a stunt with David Bonanzac and embarrassed him now my target is Wood's. Why does one do it? To get money, silly! You can actually earn quite a bit of money by black mailing a rich guy. Tiger hasn't thrown any ... [see more](#).



See also: [tiger woods](#) | [rachel uchitel](#) | [tiger woods car accident](#) | [tiger woods cheating accident](#) |

(Chatbox) — The superstar PGA golfer, Tiger Woods was involved in an early morning on Friday, crashing his 2009 Cadillac sports utility vehicle into a fire hydrant and a tree.

### video: tiger woods rachel uchitel



18 min 34 sec, Rating 8/10, 147780 views  
108 people bookmarked this movie

# Life is tough but it's tougher when you're stupid!

**GIZMODO** THE GADGET BLOG

Display Condensed search

iPhone Apps

BestMode

Built-in, always-on social apps at 3G speed



CRIME

**Thief Nabbed After Forgetting To Log Out Of Facebook During Robbery**

By Sean Fallon, 8:20 PM on Thu Sep 17 2009, 128,064 views

**Rob Houses** is totally robbing this house at 18 Main Street right now.  
Mon at 11:47am · Comment · Like

 12 people like this.

**Police** Cool.Wanna hang out?

Write a comment...

Joining our ever-increasing pantheon of **stupid criminals**, we have one 19-year old Pennsylvania man who was nabbed after forgetting to log out of his Facebook account at the scene of the crime.

Why the hell would someone stop to check Facebook on a computer owned by the person you robbing? Facebook addiction is a serious problem folks. Mark my words—its only a matter of time before some idiot felon gives a play-by-play tweet session of a crime in progress. Hell, it's probably already happened. [Mashable]



# Yesterday

The screenshot shows a web browser window displaying the Washington Post website. The browser's address bar shows the URL 'washingtonpost.com'. The page features a navigation bar with links to various sections like NEWS, POLITICS, and BUSINESS. A large advertisement banner at the top promotes 'IT Professionals Solving Today's Satellite Operations Challenges' by Stinger Ghaffarian Technologies. Below the navigation bar, a search bar and a 'go' button are visible. The main content area displays a TechCrunch article titled 'One Of The 32 Million With A RockYou Account? You May Want To Change All Your Passwords. Like Now.' by MG Siegler. The article discusses a security flaw in the RockYou database, which contained 32,603,388 unprotected plain text passwords. A sidebar on the right contains a 'TOOLBOX' with links to 'Resize', 'Print', and 'E-mail', and a 'COMMENT' section with a 'Post' button. A large advertisement on the right side of the page promotes a national plan to make high-speed Internet available to 100% of American families by 2014, with a 'CLICK HERE' button and a 'REPLAY' link. The browser's status bar at the bottom shows 'Done' and 'Internet'.

The Washington Post

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IT Professionals Solving Today's  
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## One Of The 32 Million With A RockYou Account? You May Want To Change All Your Passwords. Like Now.

MG Siegler  
TechCrunch.com  
Monday, December 14, 2009; 3:45 PM

It's no secret that most people use the same password over and over again for most of the services they sign up for. While it's obviously convenient, this becomes a major problem if one of those services is compromised. And that looks to be the case with [RockYou](#), the social network app maker.

Over the weekend, the security firm [Imperva](#) issued a [warning](#) to RockYou that there was a serious SQL Injection flaw in their database. Such a flaw could grant hackers access to the service's entire list of user names and passwords in the database, they warned. Imperva said that after it notified RockYou about the flaw, it was apparently fixed over the weekend. But that's not before at least one hacker [gained access](#) to what they claim is *all* of the 32 million accounts. 32,603,388 to be exact. The best part? The database included a full list of unprotected plain text passwords. And email addresses. Wow.

TOOLBOX

TRY EMAIL MARKETING FREE FOR 60 DAYS!

COMMENT

0 Comments

BE THE FIRST TO COMMENT  
You must be logged in to leave a comment.  
[Log in](#) | [Register](#)  
[Why Do I Have to Log In Again?](#)

Discussion Policy

Advertisement

We support a national plan to make high-speed Internet available to **100%** of American families by 2014.

Read our 100% Broadband by 2014 Proposal.

REPLAY

# Same old, same old

- It's no secret that most people use the same password over and over again for most of the services they sign up for
- While it's obviously convenient, this becomes a major problem if one of those services is compromised.
- And that looks to be the case with RockYou, the social network app maker

# The sounds of silence

- To compound the severity of the security breach, it was found that RockYou are storing all user account data in plain text in their database, exposing all that information to attackers
- RockYou have yet to inform users of the breach, and their blog is eerily silent – but the details of the security breach are going from bad to worse



# Head in the sand

- The hacker responsible for the initial breach published a small portion of the dataset he had retrieved and was able to show that not only did he have access to their entire database, but also passwords were stored in the clear



# Totally compromised





# This begs the question...

- How many people use the same password for each and every social site?
- I would venture that a vast majority of the 32,000,000 users whose data was compromised



Okay to trust but please verify



# A healthy dose of skepticism



**SKEPTICISM**

IF WE CAN DOUBT IT, THEN IT PROBABLY ISN'T TRUE.

# Please take the time to change your privacy options but only do so at facebook.com and not at some duck's site!

Pop-up blocked. To see this pop-up or additional options click here...

## COMPUTERWORLD Security

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    - Standards & Legal Issues
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  - + Business Intelligence
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  - + Development
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### Update: Facebook simplifies privacy options

Users will now be able to set a privacy setting for every item they post

By Juan Carlos Perez  
December 9, 2009 01:09 PM ET

Comments (0) Recommended (3) Digg Twitter Share/Email

IDG News Service - Following through on plans announced a few months ago, Facebook is rolling out changes on Wednesday to its privacy settings intended to make them simpler to adjust and understand by its 350 million end users.

In addition to consolidating some privacy options and grouping them in a single interface, Facebook will also provide new tools designed to walk end users through the settings.

Also, Facebook users will now be able to establish a privacy setting for every item they post on the site via a drop-down menu.

"We believe people should have the ability to share information with only the people they want. We also believe the best time to make this decision is at the very moment the person is sharing something, not months or even years before on a settings page far away," said Elliot Schrage, Facebook's vice president of communications, public policy and marketing, in a press conference. "We want to make privacy something that is considered in context of what's being shared, so that users have more control over what they share."

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**Network-Optimized, Secure Replication for Enterprise-Class Disaster Recovery**  
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REPLAY

Learn how to reduce downtime by up to 85%\* with a FREE IDC white paper.

HP ProLiant DL380 G6 Servers powered by Intel® Xeon® Processor 5500 series

Technology for better business outcomes

Intel Xeon Powerful. Intelligent.

hp

Done

Internet

# Lock it down!





## So, what's the solution, Patrick?

- The decision to embrace social media technology is a risk-based decision, not a technology-based decision
- It must be made based on a strong business case, supported at the appropriate level for each department or agency, considering its mission space, threats, technical capabilities, and potential benefits

# Just say yes, but secure it

- The goal of the IT organization should not be to say “No” to social media websites and block them completely, but to say “Yes, following security guidance,” with effective and appropriate information assurance security and privacy controls



# A well thought out decision

- The decision to authorize access to social media websites is a business decision, and comes from a risk management process made by the management team with inputs from all players, including the CIO, CISO, Office of General Counsel (OGC), privacy official and the mission owner



# Aggressive threats

- The use of social media and the inherent cybersecurity concerns form a complex topic that introduces additional vulnerabilities, targeted by an advanced threat, requiring updated sets of controls
- Your information systems are targeted by persistent, pervasive, aggressive threats – and should not be glossed over



# Hey, who's going to tell him he can't?



The screenshot shows a web browser window displaying the Twitter profile of Arnold Schwarzenegger. The browser's address bar is empty, and the taskbar at the bottom shows the 'Done' button and an 'Internet' icon. The Twitter interface includes a navigation bar with links for Home, Profile, Find, People, Settings, Help, and Sign out. The profile header shows Schwarzenegger's name, a verified account status, and his bio as the 38th Governor of California. The main feed contains four tweets, each with a link to a video or photo. The right sidebar shows statistics (112,483 following, 1,507,679 followers, 271 listed) and a list of accounts he is following.

twitter

Home Profile Find People Settings Help Sign out

 **Schwarzenegger**

<http://twitpic.com/tisag> - Visiting with US Energy Secretary Chu at the US Embassy  
about 21 hours ago from TwitPic

<http://twitpic.com/tikp0> - Meeting with Ambassador Laurie Fulton at the US Embassy in Copenhagen  
about 22 hours ago from TwitPic

Here's the link. Start submitting! <http://climateonecop.com/>  
<http://vid.ly/bl7v>  
4:44 PM Dec 11th from vid.ly

While at UN Climate Summit next week I'll answer Q's tweeted on energy & environment. See <http://climateonecop.com/> to participate.  
12:17 PM Dec 11th from Tweetie

It was a great ceremony - here is the countdown! <http://vid.ly/bl6D>  
8:55 PM Dec 10th from vid.ly

 **Verified Account**

**Name** Gov. Schwarzenegger  
**Location** Sacramento, California  
**Web** <http://gov.ca.gov>  
**Bio** As California's 38th Governor I look forward to hearing from you.

**112,483** following **1,507,679** followers **271** listed

**Tweets** **710**

**Favorites**

**Actions**  
block Schwarzenegger  
report for spam

**Following**



[View all...](#)

 **RSS feed of Schwarzenegger's tweets**

Done Internet



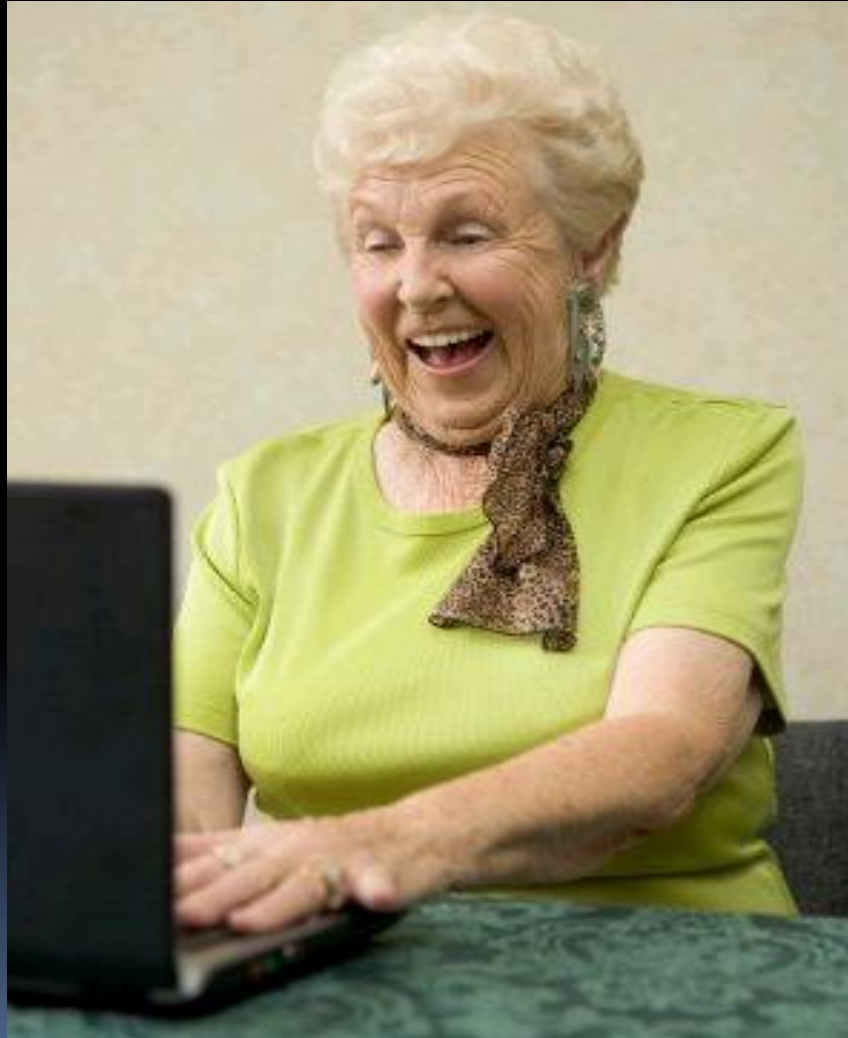
So, have fun!



# Email – an enticing vector



# Aunt Marion





# PayChoice



# Misdirection

- Last Wednesday, a number of PayChoice customers received an e-mail warning them that they needed to download a Web browser plug-in in order to maintain uninterrupted access to the portal for PayChoice's online payroll service
- The supposed plug-in was instead malicious software designed to steal the victim's user names and passwords
- Remember, they want to take you someplace else



So,

- If we understand these burgeoning threats and deploy appropriate security solutions, we can stay a step ahead of the black hats as they target the social networking sites



# Gartner Group Quote on Security

- ***"Executives must get employees on board and establish a corporate culture that endorses security. Culture is probably the single biggest influence in an enterprise. We need to start thinking about security as a business enabler."***

***Richard Mogull, Former Security Analyst  
Gartner Group***

# But what does that mean?

- I am just a State employee and am not an engineer or a technician or a programmer or a geek!
- I'm just sitting at my desk, talking to citizens or other State employees
- How in the world am I threatening the State's network???



## 2 Reasons...

- You probably do not understand policies, procedures, best practices and standards
- If you do understand them, they are violated because there are no consequences – the policies are not enforced
- Who, me?



***There is a human element to all of this, an element that is more often than not, overlooked...***





# You Must Understand...

- That California is a target
- These hackers are smart, and most have much more time to spend attacking them than a typical system administrator can spend defending against them



# Education is Critical

- Few executives grasp the case for investing in safeguards against hackers, worms, and the like
- Education starts at the top and works its way down the food chain throughout the entire State
- Before any California State employee puts their fingers on the keyboard they must understand that it is not their computer



# Survey says...

**darkREADING**  
RISKY BUSINESS

DATE: September 28 - October 6, 2008  
LIVE EVENT: **SANS Network Security 2008**  
LOCATION: Las Vegas, NV  
[More Information](#)

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## Study: Routine Misbehavior by End Users Can Lead to Major Data Leaks

Many end users don't understand the risks associated with breaking company security policies, report says

SEPTEMBER 30, 2008 | 5:55 PM

By **Tim Wilson**  
Site Editor, *Dark Reading*

The increasing overlap between users' business lives and their personal lives is wreaking havoc on corporate policies for using company-issued PCs and mobile devices, according to a study published today.

The study, commissioned by Cisco Systems and conducted by market research firm Insight Express, confirms IT managers' suspicions that [many users routinely break corporate security policies in order to do personal business at work](#). A previous Cisco-sponsored study showed similar security risks among employees who do work at home. (See [Remote Workers Still Living Dangerously, Cisco Study Says](#).)

The new study indicates that users frequently download unauthorized data and applications to their work machines for personal use. About 80 percent of employees use their company-issued PCs for personal email, and about half use their work PCs for personal Web research and online banking.


More than half of end users have changed the security settings on their company-issued laptop to view restricted Websites, even though they knew it was against company policy. About 35 percent say it is "none of the company's business" if they have changed the security settings on their computer, the study says.

"There are still a lot of users out there who see their company PC as 'their' machine, and they feel they should be able to do what they want on it," says Cisco security expert Christopher Burke. "There is still a lot of user education that needs to be done."


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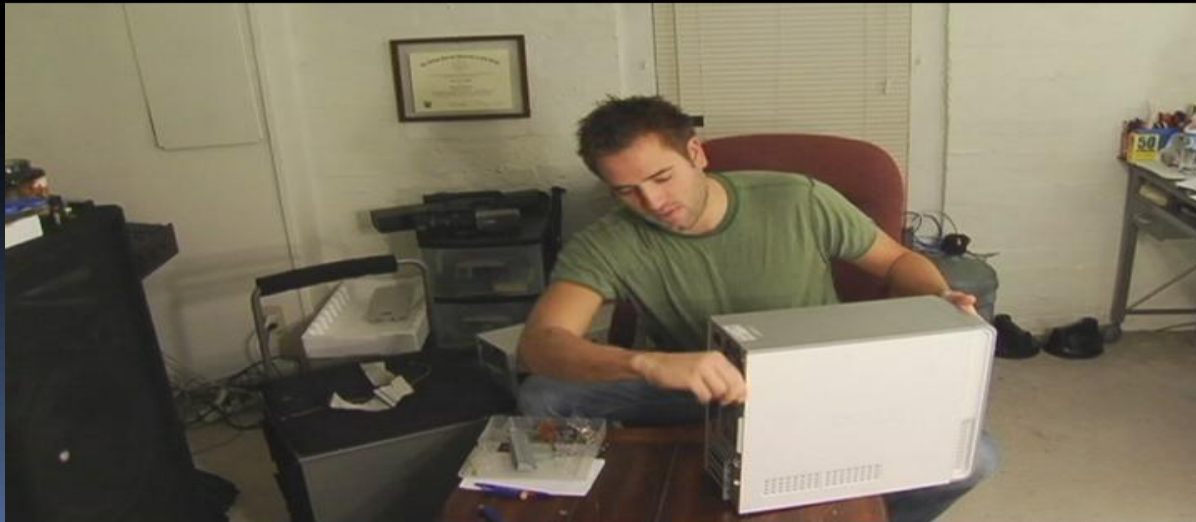
# Findings

- Users frequently download unauthorized data and applications to their work machines for personal use
- About 80 percent of employees use their State-issued PCs for personal email, and about half use their work PCs for personal Web research and online banking



# Routine Behavior

- More than half of end users have changed the security settings on their State-issued computer to view restricted Websites, even though they knew it was against policy





# Findings

- About 35 percent say it is "none of their employer's business" if they have changed the security settings on their computer
- There are still a lot of users out there who see their issued PC as 'their' machine, and they feel they should be able to do what they want on it



# Findings

- More than half of IT execs say that such unauthorized activity causes as much as 25 percent of the data leakage in their organizations; 16 percent say it causes up to 50 percent
- Many users also share both company devices and sensitive information with others, including colleagues, friends, and family members



# Findings

- More than 40 percent of the users said they shared sensitive information because they felt the need to "bounce an idea off of someone."
- About 30 percent said they felt the need to vent and/or didn't see anything wrong with sharing the sensitive information



Pogo was right...



# The State of Security Today: active vs. passive





Passive...

What good is security if no one is



And try to understand the real threat!



# Get an Information Security Risk Assessment!



# The Seven Deadly Sins of Network Security

1. Not measuring risk
2. Thinking compliance equals security
3. Overlooking the people
4. Too much access for too many
5. Lax patching procedures
6. Lax logging, monitoring
7. Spurning the K.I.S.S.



# The Insider is hard to Identify



The collage consists of five distinct screenshots:

- Top Left:** The US-CERT (United States Computer Emergency Readiness Team) website. It features a header with the US-CERT logo and a navigation menu including Publications, Events, Other Resources, and About Us. A 'Welcome' message states that US-CERT coordinates defense against and responses to cyber attacks across the nation.
- Top Middle:** The ISSA (Information Systems Security Association) website. It has a blue header with the ISSA logo and a navigation menu with links like Home, Members Only, Forum, Sitemap, and Press Room. A 'New on the Site' section highlights a summary of security items from August 31 through September 6, 2005.
- Top Right:** The American College of Forensic Examiners Institute website. It features a dark header with the institute's name and a navigation menu. A central banner reads 'An independent, scientific, and professional society actively promoting the discipline of forensic information'.
- Bottom Left:** The InfraGard website. It has a blue header with the InfraGard logo and a navigation menu. A 'What's New?' section lists recent updates, including 'InfraGard Donations to Hurricane Relief Effort' and '2005 InfraGard National Conference Presentations'.
- Bottom Right:** A screenshot of a document titled 'Memorandum of Understanding' between the Department of Homeland Security and the InfraGard National Members Alliance. The document is dated August 15, 2005, and is signed by Michael Goldberg.



# Do we share?



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SAIC is no longer providing services. For additional information regarding the Energy ISAC Administrator, 682-8286.

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Current Threat Level

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**Security News**  
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A New Vulnerability for Cisco IOS  
Softpedia (09/09/2005)  
Critical Windows patches announced  
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Hacker sentenced for computer fraud  
GazetteIndia (09/09/2005)

### INFORMATION TECHNOLOGY - Information Sharing and Analysis Center

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Katrina victims at risk for ID theft, experts say  
Reuters (09/09/2005)


How to help victims of Hurricane Katrina

Vulnerability Trends



**RECENT ALERTS**

- X-FORCE** Sun Solaris printed arbitrary file deletion
- US-CERT** Technical Cyber Security Alert TAO Products are Affected by Multiple Vulnerabilities (C
- US-CERT** Technical Cyber Security Alert TAO Exec Users Hard-Coded Authentication Credentials (C
- X-FORCE** Veritas Backup Exec Remote Agent



## Multi-State Information Sharing Analysis Center (ISAC)

### ISAC Members

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- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Florida
- Georgia
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- Idaho
- Illinois
- Indiana
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- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina
- North Dakota

## Welcome to the Multi-State Information Sharing Analysis Center

[National Cyber Security Awareness Month October 2005](#)

The challenges that we face in the post-September 11 world know no geographic bounds. It is imperative that all of us work together, to share information and knowledge in order to most effectively ensure that the critical infrastructure upon which all of us depend is protected.

Recognizing the need for collaboration, a [Multi-State Information Sharing and Analysis Center \(ISAC\)](#) was established in January 2003. The MS-ISAC began with the Northeast states, and quickly expanded. Currently, there are 49 states and the District of Columbia participating.

The goal is to have this MS-ISAC include all fifty states, which would provide a valuable centrally-coordinated mechanism for sharing important security intelligence and information between the States. The MS-ISAC can serve as a critical point of contact between the States and the Federal government. A primary goal of the MS-ISAC is to eliminate duplicative efforts.

The MS-ISAC member states meet monthly by teleconference to discuss issues and share information relating to each state's cyber security readiness and resilience. The MS-ISAC has moved quickly since its inception and has been recognized by the Department of Homeland Security for its proactive role in bringing the states together.

The Department of Homeland Security's [Computer Emergency Readiness Team](#) (US-CERT) and the MS-ISAC are working together on a number of programs, including the National Webcast Initiative, to help enhance our Nation's cyber security readiness and response.

It is only through collaboration and communication that we can be successful in helping to protect and secure the critical infrastructure that supports all of our citizens and businesses.

# They certainly do!

## ShmooCon 2009

Feb 6 - 8, Wardman Park Marriott, Washington DC, USA

	News	CFP	Registration	Events	About
--	------	-----	--------------	--------	-------



### Welcome

**Different** • ShmooCon is an annual East coast hacker convention with an interesting atmosphere for demonstrating technology exploitation and open discussions of critical infosec issues. The first day is Mind. The next two days, there are three tracks: Break It!, Build It!, and

**Affordable** • ShmooCon is about high-quality without the high price tag. Registration discounts, and ShmooCon can be dirt cheap. Space is limited, so unless taking a chance on an eBay auction ticket, get early!

**Accessible** • Well, except for our West coast friends, sorry guys. ShmooCon is held at the Marriott Wardman Park Hotel, just a few steps from the D.C. Metro



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[Lockpicking Village: Active](#)  
[Movie Night w/ DT: Active](#)  
[Open CTF: Reg. Closed](#)  
[Pheaking Challenge: Active](#)  
[Race to Zero: Active \*\*NEW\*\*](#)  
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[Sushicon: Active](#)  
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**DEFCON 16 was held August 8-10, 2008**  
DEFCON 17 will be held July 31 - August 2, 2009  
at the Riviera Hotel & Casino in Las Vegas



**You Can Click!**

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complete this brief survey.  
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***"It's about communication between people,  
the rest is technology"***

#### ETHICS & HUMOR

Name	Description	Size
<a href="#">2084 - A Phone Odyssy</a>	A clever satire of 1984, 2001 : A Space Odyssy and phreaking	2,740 bytes

#### TEXT

Name	Description	Size
<a href="#">Phreakers Manual</a>	Excellent phile that explains phreaking	177,558 bytes
<a href="#">Sic-Pbxs</a>	Excellent tut on how to hack PBX's	14,819 bytes
<a href="#">Telecoma</a>	Phreakers Encyclopedia	20,703 bytes
<a href="#">5(m)ess</a>	Nice phile on 5ess switching	12,098 bytes
<a href="#">Hitchhikers guide to the phone system... Phreaking in the nineties</a>	Nice phile that explains a few of the newer switching systems, good for beginners	10,102 bytes
<a href="#">Boxs</a>	All the boxes, what they do, and how to use them	64,476 bytes
<a href="#">PBX Vulnerability Analysis : Finding Holes In Your PBX Before Someone Else Does</a>	Paper that explains exactly what the title says. A good read.	171,330 bytes
<a href="#">Compromising Voice Messaging Systems</a>	Describes the basics of voice mail systems (PDF)	124,429 bytes

#### MERIDIAN

Name	Description	Size
<a href="#">Meridian Hacking</a>	Introduction to hacking meridian switching	18,623

amazon.com.

EARTH'S BIGGEST  
SELECTION!  
shop here

ABSOLUTE  
ONLINE  
PRIVACY

TOP50 Security  
h/p/e/c/a

*"No matter what kind of shop you run, Linux, Mac or Windows, you are exposed to a variety of security threats on a daily basis. You have to deal with potential information spills, security breaches and system compromises, as well as fighting the propensity of humans to do incredibly foolish things."*

**Linda LeBlanc**  
**Former Gunnery Sergeant, U.S. Marine Corps**

# The opposing team?

- The Hackers
- Disgruntled Insiders
- Clueless employees
- Competitors
- Foreign Governments
- Terror organizations



# Terrorists

- There are 154 known Terror Organizations
- They have two things in common:
  1. A visceral hatred of the United States and our freedoms
  2. They are using the Internet for command, control, communications and recruitment





# Did I mention recruitment

The New York Times


Asia Pacific

Search All NYTimes.com

WORLD U.S. N.Y. / REGION BUSINESS TECHNOLOGY SCIENCE HEALTH SPORTS OPINION ARTS STYLE TRAVEL JOBS REAL ESTATE AUTOS

AFRICA AMERICAS ASIA PACIFIC EUROPE MIDDLE EAST

## 5 U.S. Men Arrested in Pakistan Said to Plan Jihad



Rahat Dar/European Pressphoto Agency

A view of the interior of the four-room home in a government housing complex in Sargodha, Pakistan, where five American Muslims were arrested by Pakistani intelligence agencies.

By JANE PERLEZ, SALMAN MASOOD and WAQAR GILLANI  
Published: December 10, 2009

ISLAMABAD, Pakistan — Investigators from the [F.B.I.](#) continued Friday to question five Muslim American men who were arrested in [Pakistan](#) earlier this week, but it remained unclear whether the men would be deported to the United States, a spokesman for the Interior Ministry said.

“It all depends on the investigations.”

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### Afternoon Update

Sign up for a recap of the day's top stories and business headlines, sent weekday afternoons.

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replay

Smarter business for a Smarter Planet.

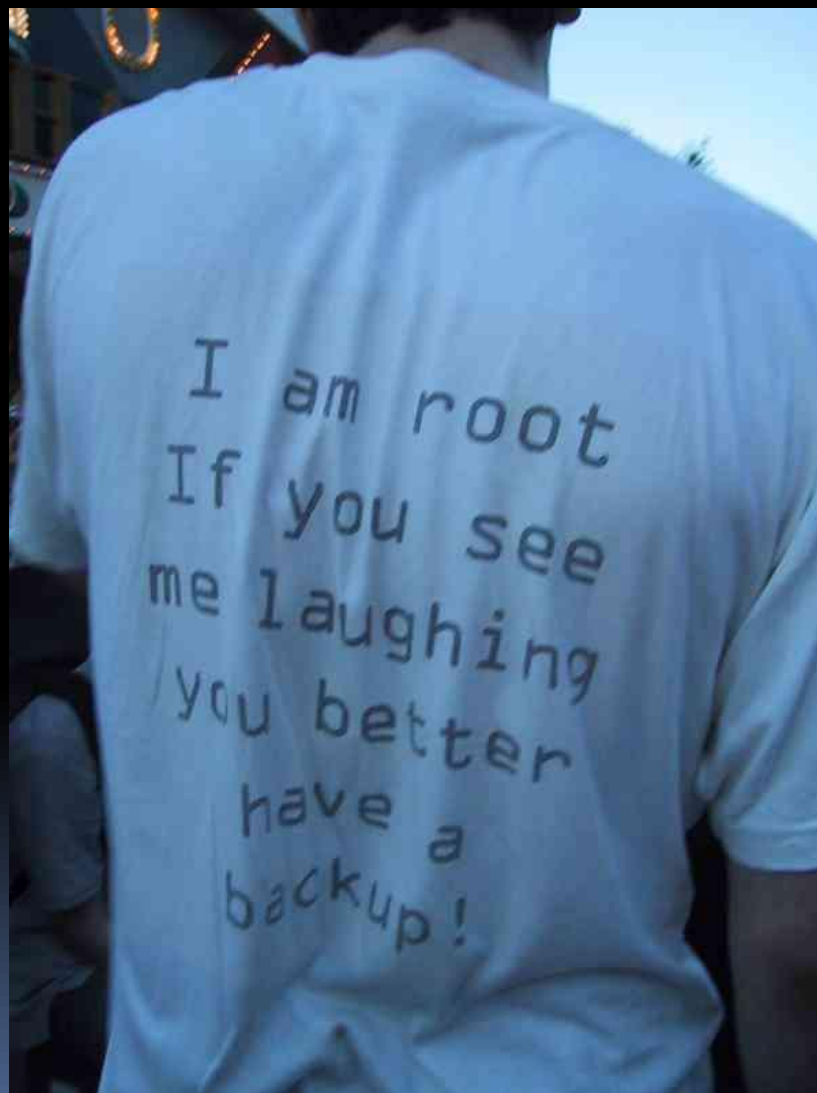
Error on page.

Internet

# The Hackers



# The Hacker Threat



# The Tools

The screenshot shows a Google search results page for the query "Hacker tools". The browser's address bar is empty, and the Google logo is visible. The search bar contains the text "Hacker tools". The results are displayed under the "Web" tab. The first result is "Hacker Tools and Utilities" from netsecurity.about.com, which provides information and advice about tools and applications commonly used to hack computer networks and systems. The second result is "2004's Most Popular Viruses, and Hacking Tools" from thenetworkadministrator.com, listing the most popular hacker tools, viruses, remote tools, adware, spyware, etc. The third result is "2003 Most Popular Hacking Tools" from thenetworkadministrator.com, listing the most commonly used programs for hacking. The fourth result is "Insecure.Org - Nmap Free Security Scanner, Tools & Hacking resources" from insecure.org, providing information about Nmap Open Source Network Security Scanner. The fifth result is "Astalavista" from astalavista.com, featuring news and commentary on security tools and documents. The sixth result is "Amazon.com: Anti-Hacker Tool Kit: Books: Keith Jones, Mike Shema, Bradley Johnson" from amazon.com. The seventh result is "Wired News: Google: Net Hacker Tool du Jour" from wired.com, discussing Google's potential for intrusion. The eighth result is "Scripts and Hacker Tools - Downloads - Geek Library" from library.mobrien.com. The ninth result is "Anti-Hacker Tool Kit 3rd Edition" from antihackertoolkit.com. The tenth result is "Symantec Security Response - Hack Tools" from symantec.com, discussing tools that can be used by a hacker or unauthorized user to attack.

Google Web Images Groups News Froogle Maps more »  
Hacker tools Search Advanced Search Preferences

Web Results 1 - 10 of about 56,300,000 for [Hacker tools](#). (0.24 seconds)

**Hacker Tools and Utilities**  
Information and advice about **tools** and applications commonly used to **hack** computer networks and systems as well as how many of these **tools** can be used to ...  
[netsecurity.about.com/od/hackertools/](#) - 29k - [Cached](#) - [Similar pages](#)

**2004's Most Popular Viruses, and Hacking Tools**  
Here are 2004's most popular **hacker tools**, viruses, remote **tools**, adware, spyware, ... Listed below are the most commonly used programs **Hacker tools**, ...  
[www.thenetworkadministrator.com/top2004hackertools.htm](#) - 21k - [Cached](#) - [Similar pages](#)

**2003 Most Popular Hacking Tools**  
Listed below are the most commonly used programs **Hacker tools**, Key Loggers, ... **Hacker tools** are programs written to access a computer system using known ...  
[www.thenetworkadministrator.com/2003MostPopularHackingTools.htm](#) - 37k - [Cached](#) - [Similar pages](#)

**Insecure.Org - Nmap Free Security Scanner, Tools & Hacking resources**  
Network Security **Tools**/Software (Free Download) including Nmap Open Source Network Security Scanner, Redhat Linux, Microsoft Windows, FreeBSD, UNIX **Hacking**.  
[www.insecure.org/](#) - [Similar pages](#)

**Astalavista**  
Featured news and commentary, recommended security **tools** and security documents, ...  
VIDEO - Interview with Ex-**Hacker** Gary McKinnon - TCP Tunnel ...  
[www.astalavista.com/](#) - 40k - Jul 14, 2006 - [Cached](#) - [Similar pages](#)

**Amazon.com: Anti-Hacker Tool Kit: Books: Keith Jones, Mike Shema, Bradley Johnson**  
Amazon.com: Anti-**Hacker Tool Kit**: Books: Keith Jones, Mike Shema, Bradley Johnson by Keith Jones, Mike Shema, Bradley Johnson.  
[www.amazon.com/exec/obidos/tg/detail/-/0072222824?\\_glance=](#) - 104k - [Cached](#) - [Similar pages](#)

**Wired News: Google: Net Hacker Tool du Jour**  
"Google, properly leveraged, has more intrusion potential than any **hacking tool**," said **hacker** Adrian Lamo, who recently sounded the alarm. ...  
[www.wired.com/news/infostructure/0,1377,57897,00.html](#) - 28k - [Cached](#) - [Similar pages](#)

**Scripts and Hacker Tools - Downloads - Geek Library**  
Search our resource-rich technical library. The Network **Tools** and IT Library Portal. A collection of security development **tools**, technical manuals.  
[library.mobrien.com/](#) - 12k - [Cached](#) - [Similar pages](#)

**Anti-Hacker Tool Kit 3rd Edition**  
Anti-**Hacker Tool Kit** 3rd Edition. Understanding security **tools** ... As you would expect from a book devoted to **tools**, the focus on the book is decidedly ...  
[www.antihackertoolkit.com/](#) - 25k - Jul 14, 2006 - [Cached](#) - [Similar pages](#)

**Symantec Security Response - Hack Tools**  
**Tools** that can be used by a **hacker** or unauthorized user to attack, gain unwelcome ... While some **hack tools** may also be valid for legitimate purposes, ...  
[www.symantec.com/avcenter/security\\_risks/hack\\_tools/](#) - 34k - [Cached](#) - [Similar pages](#)

Sponsored Links

**Saint Exploit**  
Integrated Penetration Testing and Vulnerability Scanner from Saint.  
[www.saintcorporation.com](#)

**Catch Hackers Red-Handed**  
LANGuard SELM: Intrusion Detection via event log monitoring. Free eval  
[www.gfi.com](#)

**Security Analysis tool**  
Expose Real Security Holes Now !  
New Comprehensive Analysis Software  
[www.beyondsecurity.com](#)

Remember, this is a global phenomenon,  
it's not just about Sacramento





# Biggest Players in the Global Black Market

- Russia
- China
- France
- Israel
- U.S.





# Krews

- HangUp Team
- CNHonker
- Russian Business Network
- Rock Phish
- 76Service
- MAAS
- Hoff is Thirsty



# Their Motivation?



# Top 8 Perceived Threats

- System penetration
- Sabotage of data
- Theft of proprietary information
- Denial of service
- Viruses and Worms
- Unauthorized insider access
- Laptop theft
- Insider abuse of the Internet



# System Penetration

- It is an unfortunate reality that you will suffer a breach of security at some point
- To bypass security, an attacker only has to find one vulnerable system within the entire network
- But to guarantee security, you have to make sure that 100 percent of your systems are invulnerable -- 100 percent of the time



# Data Leakage:

## How many instances in 2009?

- 526 instances of Data Leakage
- **39,664,641** individuals affected and counting
- Lots of unhappy people
- How will you be impacted?



# Public Sector

- Bluegrass Community and Technical College (Danville, KY)
- Naval Hospital Pensacola, FL
- School for the Physical City (New York, NY)
- University Florida
- Akron Children's Hospital (Akron, OH)
- Eastern Kentucky University (Richmond, KY)





# Public Sector

- UNC Chapel Hill (Chapel Hill, NC)
- Suffolk Community College (Selden, NY)
- U.S. Army Special Forces (Fort Bragg, NC)
- Pitt County Memorial Hospital (Greenville, NC)
- Virginia Department of Education
- Bullitt County Public Schools (Shepherdsville, KY)
- Roane State Community College (Harriman, TN)



# Public Sector

- Chaminade University (Honolulu, HI)
- National Archives and Records Administration (College Park, MD)
- Nebraska Workers' Compensation Court (Omaha, NE)
- University Medical Center (Las Vegas, NV)
- Penn State (University Park, PA)



# Public Sector

- Salem Housing and Community Services (Salem, OR)
- Eastern Illinois University (Charleston, IL)
- University of Nebraska (Omaha, NE)
- Wake County Schools (Raleigh, NC)
- Bushland Elementary School (Bushland, TX)
- University Medical Center (Las Vegas, NV)



# Public Sector Last 90 Days

The screenshot shows the FierceGovernmentIT website interface. At the top, a navigation bar includes links for FierceCIO, TechWatch, FierceMobileIT, FierceContentManagement, FierceGovernmentIT, FierceVoIP, FierceHealthIT, and FierceFinancialIT. The main header features the FierceGovernmentIT logo with the tagline "THE GOVERNMENT IT NEWS BRIEFING". Below this is a secondary navigation bar with links for HOME, NEWS, SPECIAL REPORTS, EVENTS, WHITEPAPERS, WEBINARS, RESEARCH, and TECH FINDER, along with "Advertise | Contact".

The main content area is divided into several sections. On the left, there is a "FREE NEWSLETTER" sign-up form for FierceGovernmentIT, which is described as a time-saving news briefing covering compliance, defense IT, green IT, IPv6, security, and much more. The form includes an email address field and a "Sign Me Up!" button. Below this is a "LATEST NEWS" section with a list of headlines: "Feds target stimulus cash fraud; DHS: More fixed price contracts coming;" and "Chinese cyberattacks".

The central section features a headline: "GAO: DoD loses track of 72,000 combat records", dated November 24, 2009, by Judi Hasson. The article text states: "There are so many data breaches throughout government these days that it's getting tiresome. The question is why do they keep happening? Last week, the Government Accountability Office disclosed another one--this time from the Defense Department. The GAO revealed that DoD could not account for more than 72,000 health questionnaires that were to have been completed by troops following their service in Iraq and Afghanistan. The discovery 'suggests either that not all of these service members filled out the questionnaire or that questionnaires were filled out, but were not incorporated into Defense's central repository,' wrote Randall Williamson, the GAO's director of health care in a report to Congress." To the right of the article text is a "TOOLS" sidebar with links for Email, Print, Comment, Contact Author, Reprint, Buzz up!, Digg, and Reddit. Below the tools is a "TAGS" section with links for military medical records, Gao, DoD, and Data Breach.

On the right side of the page, there is a "SEARCH:" box with a "GO" button. Below the search box is a large graphic with the text "Secure more with less" and a background of binary code. Further down is a "MOST POPULAR STORIES" section with two tabs: "Most Read" and "Most Emailed". The "Most Read" tab is selected, showing a list of stories: "Analyst: AT&T to lose iPhone exclusivity in mid-2010", "Firefox has CPU usage problem", "Google makes free navigation app available on older version of Android", "Cisco announces iPhone security app", and "AT&T follows Verizon in offering prepaid mobile broadband".

The bottom of the page shows a Windows taskbar with the "Done" button, a system tray with a volume icon, a network icon, and a clock showing "Internet".

# Ouch!

The screenshot shows a web browser window displaying the FOX 23 MAINE website. The browser's address bar is empty, and the taskbar at the bottom shows the 'Done' button and 'Internet' status. The website header features the 'my FOX MAINE.COM' logo with a lighthouse icon, a search bar with 'Site' and 'Web' radio buttons, and the 'FOX 23 MAINE' logo. A navigation bar includes links for 'HOME', 'NEWS', 'WEATHER', 'SPORTS', 'MONEY', 'ENTERTAINMENT', 'BLOGS', 'ABOUT US', 'OUR PROGRAMS', and 'COMMUNITY'. Below this is a 'Market:' dropdown menu.

The main content area displays a news story titled 'Downeast Energy Suffers Security Breach'. The story is published on Tuesday, 15 Sep 2009, at 8:20 AM EDT. The text of the article states that Downeast Energy in Brunswick is the victim of a computer breach that led to unauthorized access to one of its bank accounts at Key Bank. The personal information of as many as 800 Downeast customers may have been compromised. The article further reports that Downeast says the perpetrators succeeded in transferring funds out of the account, which may result in a loss of around \$150,000 to the company. It also mentions that the Attorney General's office is investigating, and it appears this breach came as a result of a very sophisticated phishing e-mail. The company has sent letters to all customers affected by this incident and plans to follow up with phone calls to each customer to extend their apologies and to make sure they understand the situation. The article is provided by News 13.

To the left of the article is a video player showing a news anchor. Below the video player is a 'Marketplace' section with two articles: 'Acai Berry Weightloss SHOCKER' and 'A Reverse Mortgage in ME?'. To the right of the article is a sidebar with social media links (EmailThis, Bookmark This, Print this story, View Story on a Single Page), a Facebook link, and a 'Latest News' section with three items: 'Project Implicit: Am I Racist?', 'Is Your Dentist Offering Candy Buy Back?', and 'Corpse Flower To Bloom in Wisconsin'. At the bottom right is an advertisement for Suzuki with the text 'GET AS SLOW AS' and 'SUZUKI WORK & PLAY YOUR WAY'.

# Anatomy of an attack

- Last month, Brunswick, Maine-based heating and hardware firm **Downeast Energy & Building Supply** sent a letter notifying at least 850 customers that the company had suffered a data breach
- Downeast sent the notice after discovering that hackers had broken in and stolen more than \$200,000 from the company's online bank account
- The hackers gained entrance when a Downeast employee clicked on a hyperlink in a fraudulent email



# First inkling to Downeast

- The first indications of fraud came when Downeast's chief financial officer received a phone call from a bank in Texas, asking whether the company had approved a suspicious transfer to a local resident in the amount of \$9,800



# Utilizing “Money Mules”

- Utilizing a keylogger the hackers used that access to initiate a series of sub-\$10,000 money transfers out of the company's account to at least 20 individuals around the United States



# Western Union

- The mules are then instructed to withdraw the cash and wire it via Western Union or Moneygram to fraud gangs overseas, typically in Eastern Europe
- It is not uncommon for a single cyber robbery to depend on the help of dozens of money mules



# The Duped

- One individual who received the funds from Doweast's account was Kenneth Durastanti, a 24-year-old Ball, LA resident who was recently recruited by a company called Entrust Group Inc



\$\$\$\$\$\$

- Entrust Group told him they had found his resume on Careerbuilder.com, and that Kenneth could make thousands of dollars a month working from home



# Bogus or what?

- The company claims to be a 19-year-old brokerage firm located in Rochester, N.Y., but there is no listing for a company by that name in the New York State business register
- Also, the company's Web site is hosted in China, and its domain name -- [www.entrust-groupsvc.cn](http://www.entrust-groupsvc.cn)
- We call that a clue





# The Internet Advertisement

**Entrust Group Inc**

 [Deutsche](#)  [Danish](#)  [Bulgarian](#)

[» ABOUT US](#)  
[» SERVICES](#)  
[» NEWS](#)  
[» VACANCIES](#)  
[» OUR PARTNERS](#)  
[» CONTACTS](#)



Brokerage services include support in buying/selling of shares on behalf of the client. [more »](#)

Transparency of depository services makes them available to the interested clientele without any restrictions. [more »](#)

Feel the convenience of Assets Trust Management and the freedom we grant you. [more »](#)

Login

Password

[Forgot password?](#) [Registration](#)

**07/06/2009 - eBay Watch: Half.com Bolsters PowerSellers**

Half.com sales count toward PowerSeller status, digital download and image display tools, a community for eBay competitors and a blinged-out Sharpie for sale.

[Read more](#) 

**07/04/2009 - Wanted: Online Classifieds**

More major e-commerce players - and lesser known ones - are banking on classifieds as a viable channel for online sales.

[Read more](#) 

**Welcome to our Web-site.**

The company was set up in 1990 in New York, the USA by three enthusiasts who have financial education. The head of the company was George Black. At the very beginning of its business activity the company provided fairly narrow range of services at the investment market. Within 15 years of hard work the company has acquired international standing and managed to develop into a global financial holding with the staff of 3,000 people and headquarters in more than 100 countries of the world.

[Read more](#)

**What do we Offer?**



**Brokerage Services**

Brokerage services include support in buying/selling of shares on behalf of the client and in all operations pertaining to secondary registration, accounting and storage of securities.

[Read more](#)



**Depository**

Transparency of depository services makes them available to the interested clientele without any restrictions. Our Depository will present analytical reports to the clients discretely as frequent as defined by the client and in terms specified thereof. With our Depository the client is able to keep track of

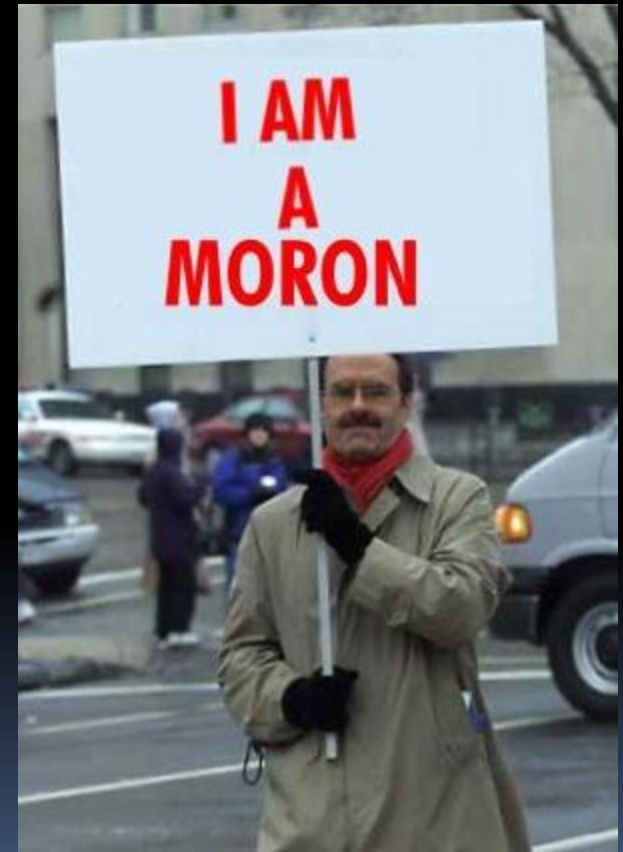
# Too good too be true

- Kenneth's mother warned him it was too good to be true
- Entrust told Kenneth that they wanted his bank account number and ID so they could put a large sum of money in his account
- They wired a \$9,589 transfer to his account and he was directed to send a Western Union Moneygram to individuals in the Ukraine



# A moron gets lucky

- Instead of sending the money to the Ukraine, he accidentally sent it to himself
- His stupidity saved him from prosecution



# Not good...

- But Patrick! It won't happen to us!



# Whether you get hacked depends...

- Do you assume the posture of, “It can’t happen here.”
- Do you hear, “We haven’t heard of any worm outbreaks and all seems quiet. Why upgrade those devices?”
- “We have no budget.”
- “We’re just hanging out in Sacramento!”
- “They’re only going after the U.S. Government and those really big banks.”
- Then my question is, “Can you really afford to give up data today?”



# Welcome to the Borderless Network





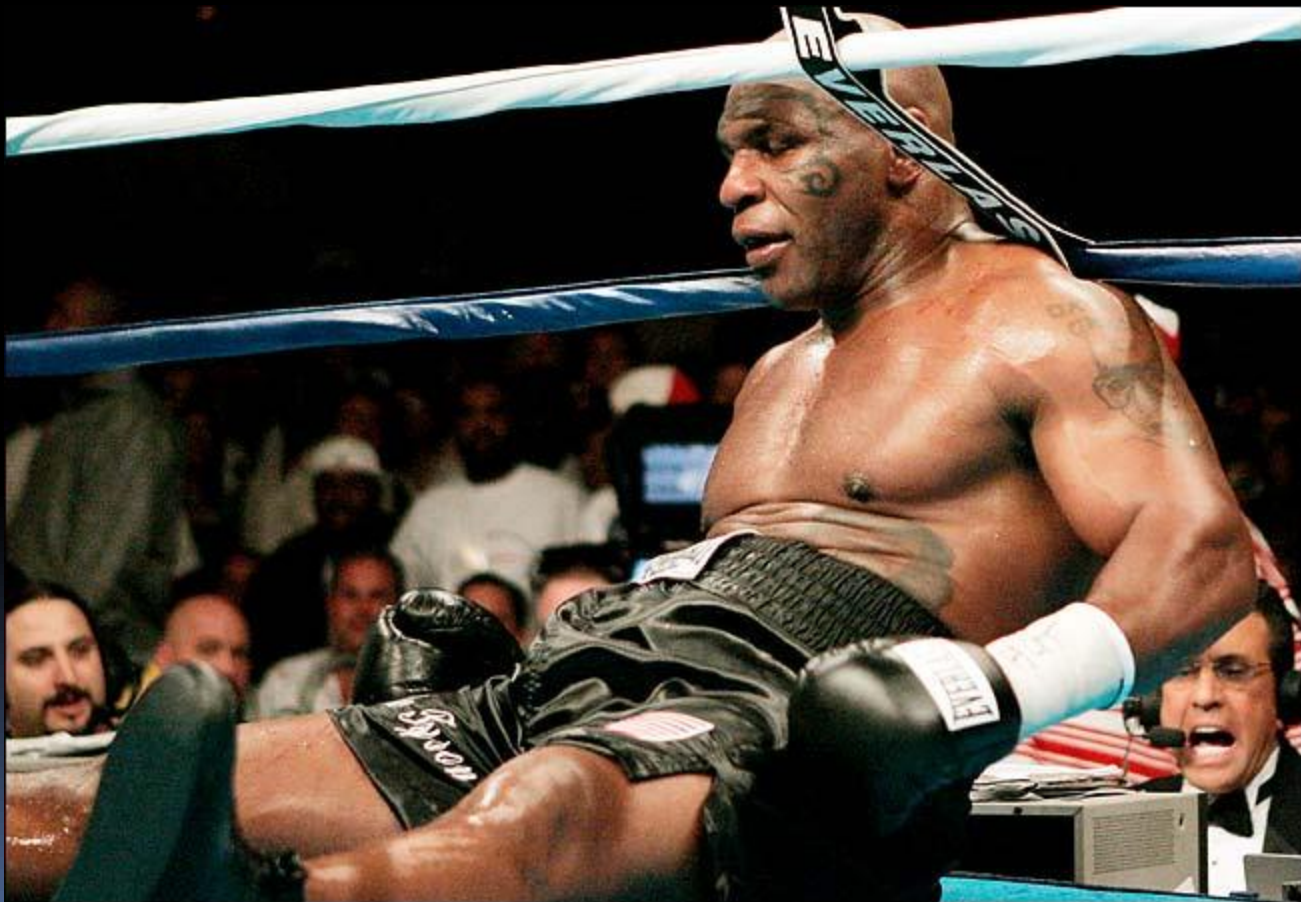
So,

- Be compliant but don't rest on your laurels
- Be vigilant
- Educate
- Know that you are a target
- Be ready to respond

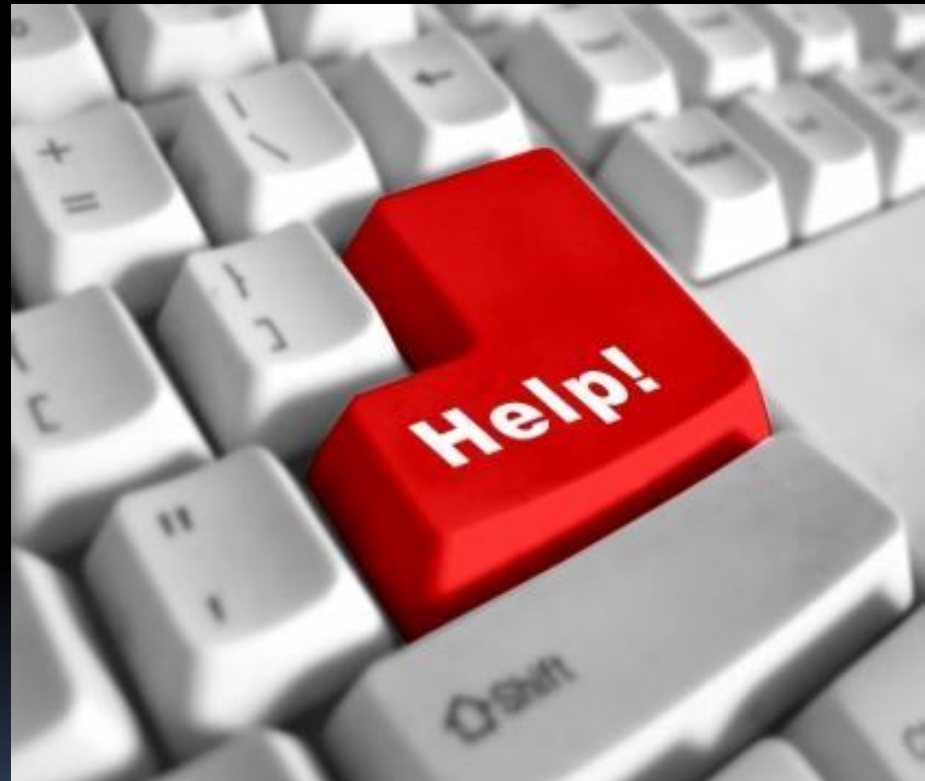
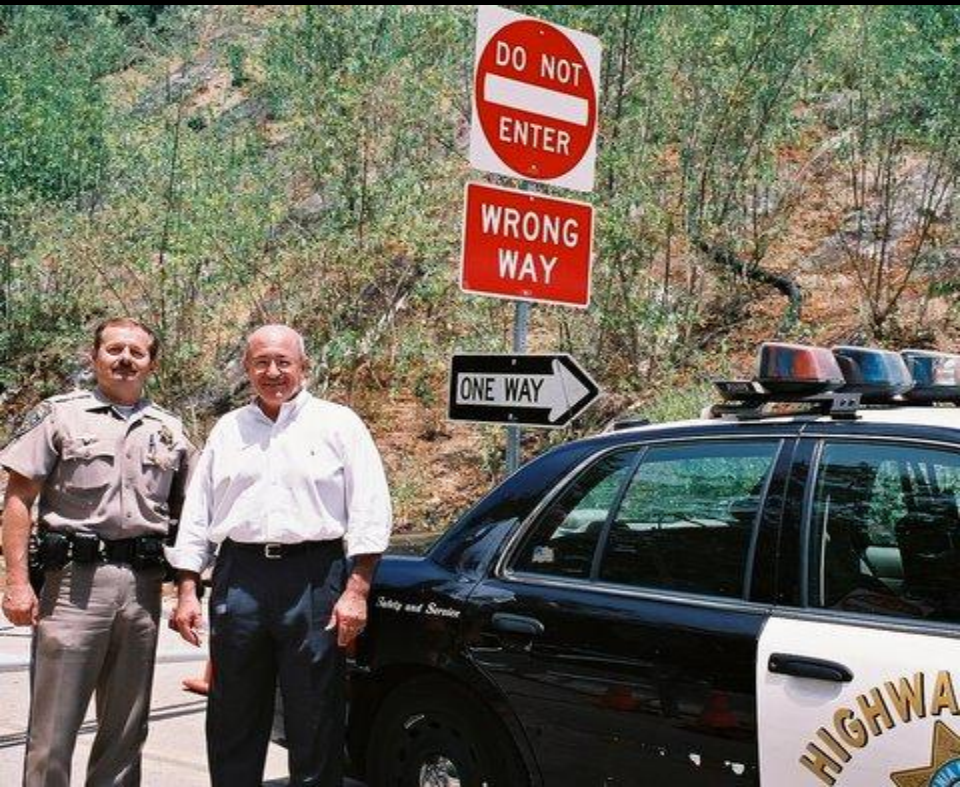


# How true!

- “Every man has a plan, until he gets hit!”



# Know who to call...



And in closing...





Let's not monkey around, protect California's  
data now!



# It's up to you...

- Your policy – let's make sure we honor our pledge to the residents of California

The screenshot shows the homepage of the California Office of Information Security. The browser's address bar is at the top with various icons. The website header features the CA.GOV logo and the Office of Information Security name. A search bar is in the top right corner. Below the header is a navigation menu with links to Home, Government, About Us, and Contact Us. The main content area is titled 'OCIO Headquarters' and includes a 'Welcome to the California Office of Information Security' section. This section contains a paragraph about the office's mission and a list of links: What's New, Spotlight, Videos, Training, and Alerts. On the left side, there are portraits of Governor Schwarzenegger, State CIO Teri Takai, and Mark Weatherford, along with a 'CYBER THREAT LEVEL' indicator showing 'GUARDED'.

CA.GOV Office of Information Security

Skip to: [Content](#) | [Footer](#) | [Accessibility](#) Search

Home Government About Us Contact Us

OCIO Headquarters

GOVERNOR SCHWARZENEGGER Visit his Website

STATE CIO TERI TAKAI

MARK WEATHERFORD DIRECTOR & CHIEF INFORMATION SECURITY OFFICER Office of Information Security

**CYBER THREAT LEVEL**

MS-ISAC DIGITAL DASHBOARD

**GUARDED**

## Welcome to the California Office of Information Security

The California Office of Information Security is the primary state government authority in ensuring the confidentiality, integrity, and availability of systems and applications, and ensuring the protection of state information. Our office represents the State to the federal, state, and local government entities, higher education, private industry, and others on security-related matters. We are committed to securing the State's information assets and maintain the trust of Californians.

- [What's New](#)
- [Spotlight](#)
- [Videos](#)
- [Training](#)
- [Alerts](#)



# A great plan!



## California Information Security Strategic Plan

October

# 2009

Thanks very much and please, no risky  
behavior on State PCs!



Public Service Announcement – If you see this man, dial 911 – do not approach alone



# From an old U.S. Marine...

For those who have served, thanks!

